



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Shinya Adachi et al. Applicants:

Serial No .: 10/075,164

Filed: February 14, 2002

METHOD FOR TRANSMITTING LOCATION INFORMATION ON A Title:

DIGITAL MAP

Docket No.: 34408

#### PETITION TO MAKE SPECIAL UNDER 37 C.F.R. § 1.102(d)

Commissioner of Patents Washington, D.C. 20231

RECEIVED

NOV 0 8 2002

Sir:

Technology Center 2100 Applicant hereby petitions that the above-identified application be made special under 37 C.F.R. § 1.102(d) and MPEP § 708.02, VIII, Special Examining Procedure For Certain New Applications – Accelerated Examination. The application has not received any examination by an Examiner.

> I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington D.C. 20231 on the date indicated below.

> > Aaron A. Fishman

Name of Attorney for Applicant(s)

August 21, 2002

Date

Signature of Attorney

P:\Client-Work\NGB.w\NGB-34408.w\NGB-34408-PTRN-v02-AAF-klh.wpd

The following are submitted herewith:

- a) A check for \$130 to cover the petition fee (37 CFR §1.17(h));
- b) A statement that a preexamination search was performed, a listing and discussion of the field of search, and a detailed discussion of the most relevant uncovered references pointing out how the claimed invention is patentable over those references; and
- c) An Information Disclosure Statement, associated form PTO-1449, and references cited therein.

All the claims in the above-captioned patent application are drawn to a single invention.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34408.

Respectfully submitted,

PEARNE & GORDON LLP

Bv

Aaron A. Fishman, Reg. No. 44682

526 Superior Avenue, East Suite 1200 Cleveland, Ohio 44114-1484 (216) 579-1700

Date: August 21, 2002



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Shinya Adachi

Serial No.:

10/075,164

Art Unit:

2121

Filed:

February 14, 2002

Title:

METHOD FOR TRANSMITTING LOCATION INFORMATION ON A

**DIGITAL MAP** 

Docket No.:

34408

## SUPPLEMENTAL PETITION TO MAKE SPECIABECEIVED UNDER 37 C.F.R. § 1.102(d)

NOV 0 8 2002

Commissioner for Patents

ATTN: TECHNICAL CENTER 2100

Washington, D.C. 20231

Technology Center 2100

Sir:

Applicant hereby petitions that the above-identified application be made special under 37 C.F.R. § 1.102(d) and MPEP § 708.02, VIII, Special Examining Procedure For Certain New Applications – Accelerated Examination.

The application has not received an examination by an Examiner.

### RECEIVED

NOV 1 4 2002

DIRECTOR OFFICE TECHNOLOGY CENTER 2100 I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Attn: Technical Center 2100, Washington D.C. 20231 on the date indicated below.

Aaron A. Fishman

Name of Attorney for Applicant(s)

November 1, 2002

Date

Signature of Attorney

The following are submitted herewith:

A copy of the originally filed Petition to Make Special Under 37 CFR § 1.102(d); a)

b) A copy of the originally filed statement that a preexamination search was

performed, a listing and discussion of the field of search, and a detailed discussion of the most

relevant uncovered references pointing out how the claimed invention is patentable over those

references;

Exhibits "A" and "B" which were erroneously omitted from the Petition when it d)

was filed; and

A copy of the originally filed Information Disclosure Statement and associated c)

form PTO-1449 (references are not included as they were submitted with originally filed Petition

to Make Special).

All the claims in the above-captioned patent application are drawn to a single invention.

If there are any additional fees resulting from this communication not covered by the

enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit

Account No. 16-0820, our Order No. 34408.

Respectfully submitted,

PEARNE & GORDON LLP

By:

Aaron A. Fishman, Reg. No. 44682

526 Superior Avenue, East **Suite 1200** Cleveland, Ohio 44114-1484 (216) 579-1700

Date: November 1, 2002







#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Shinya Adachi et al.

Serial No.:

10/075,164

Filed:

February 14, 2002

Title:

METHOD FOR TRANSMITTING LOCATION INFORMATION ON A

DIGITAL MAP

Docket No.:

34408

#### STATEMENT AND DISCUSSION REGARDING PREEXAMINATION SEARCH, AND DISCUSSION OF MOST RELEVANT UNCOVERED REFERENCES IN SUPPORT OF PETITION TO MAKE SPECIAL

Commissioner of Patents Washington, D.C. 20231

Sir:

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NOV 0>8 2002

Technology Center 2100

Applicant hereby submits the following statement and discussion:

#### PREEXAMINATION SEARCH

A preexamination search was conducted, in compliance with MPEP 708.02, VIII.

Special Examining Procedure For Certain New Applications – Accelerated Examination.

An initial search covered the following International Patent Classifications:

G 08 G - Traffic control systems (search inclusive of all subclasses),

G O9 B - Educational or demonstration appliances; appliances for teaching, or communicating with, the blind, deaf or mute; models; planetaria; globes; maps; diagrams

(search inclusive of all subclasses), and

G 01 C - Measuring distances, levels, or bearings; surveying; navigation; gyroscopic instruments; photogrammetry (search inclusive of all subclasses).

This search area covered 12,004 publications.

Within this search area, the search was narrowed to publications containing various combinations of the following keywords in their abstracts: "road," "traffic," "map," "atlas," "transportation," "car," "vehicle," "position," "location," "reference," "route," "calculation," and "information." A search was also conducted within the above-mentioned search area being limited to publications in which "BOSCH" is listed as the patentee.

A list of the actual search sets is enclosed herewith as "Exhibit A". A total of 120 potentially relevant references were discovered in this search.

A further search was conducted covering the following International Patent Classifications:

G 08 G 001/0969 - Traffic control systems for road vehicles. Arrangements for giving variable traffic instructions (indicating arrangements for variable information by selection or combination of individual elements . . provided with indicators in which a mark progresses showing the time elapsed, e.g. of green phase . . . Systems involving transmission of navigation instructions to the vehicle . . . . having a display in the form of a map,

G 09 B 029/00 - Maps; Plans; Charts; Diagrams, e.g. route diagram,

G 09 B 029/10, - Map spot or co-ordinate position indicators; Map-reading aids, and

G 01 C 021/00 - Navigation; Navigational instruments not provided for in preceding groups.

This second search area covered 11,133 publications.

Within this second search area, the search was narrowed using various keywords and patentees. A detailed explanation of this search is enclosed herewith as "Exhibit B."

Prior to these searches, applicant was aware of additional references, which are cited in an Information Disclosure Statement (IDS).

#### DISCUSSION OF MOST RELEVANT REFERENCE(S)

The party conducting the search has determined that the following uncovered references appear to be the most relevant to the subject invention: WO 00/08616 (hereinafter "616") and US 6,324,468 (hereinafter "468"). Thus, these references will be discussed with regard to patentability of the present claims. Each of these references is enclosed and cited in the IDS.

The present invention, as set forth in claim 1, is directed to a location information transmission method for reporting on-road location information on a digital map. The present invention is further directed to the steps of:

- (1) an information provider reporting on-road location information including: (a) a string of coordinates representing a road shape having a length determined depending on difficulty of shape matching, (b) additional information including road attributes or node details, and (c) relative information indicating the on-road location; and
- (2) a party receiving the on-road location information, performing shape matching to identify the road section on a digital map, and using the relative data to identify the on-road location.

The '616 publication discloses transmitting a several pairs of co-ordinates representing a traffic lane. However, '616 does not disclose including additional information such as road attributes or node details in order to assist in shape matching by a receiving party, as in the present invention set forth in claim 1. Since each of the limitations of the claim are not disclosed by the prior art, claim 1 and its dependent claims are patentable over the '616 publication.

The '468 patent discloses a central traffic station transmitting a route to a vehicle, the route consisting of a series of turning points, and the vehicle displaying the route on a

terminal unit in the vehicle. However, '468 does not disclose including additional information in the transmission, as in claim 1. Since each of the limitations of the claim are not disclosed by the prior art, claim 1 and its dependent claims are patentable over the '468 publication.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34408.

Respectfully submitted,

PEARNE & GORDON LLP .

Aaron A. Fishman, Reg. No. 44682

526 Superior Avenue, East Suite 1200 Cleveland, Ohio 44114-1484 (216) 579-1700

Date: August 21, 2002

<List of Retrieval Style>

Set No.  S01  S02  S03  S04  S05  S06  S07  S08  S09  S10  S11  S12  S13  S14  S15  S16  S17	1tems  1,729  4,768  5,575  12,004  5,214  4,825  4,617  38  4,525  7,931  79,316  99,854	Term IPC IPC IPC logical expression abstract	Descriptions G08G? G09B? G01C? S01+S02+S03 road traffic map atlas transportation car vehicle S05+S06+S07+S08
\$02 \$03 \$04 \$05 \$06 \$07 \$08 \$09 \$10 \$11 \$12 \$13 \$14 \$15 \$16	4, 768 5, 575 12, 004 5, 214 4, 825 4, 617 38 4, 525 7, 931 79, 316 99, 854	IPC IPC logical expression abstract abstract abstract abstract abstract abstract abstract abstract abstract	G09B? G01C? S01+S02+S03 road traffic map atlas transportation car vehicle S05+S06+S07+S08
\$03 \$04 \$05 \$06 \$07 \$08 \$09 \$10 \$11 \$12 \$13 \$14 \$15 \$16	5, 575 12, 004 5, 214 4, 825 4, 617 38 4, 525 7, 931 79, 316 99, 854	IPC logical expression abstract abstract abstract abstract abstract abstract abstract abstract abstract	G01C? S01+S02+S03 road traffic map atlas transportation car vehicle S05+S06+S07+S08
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\$07 \$08 \$09 \$10 \$11 \$12 \$13 \$14 \$15 \$16	4, 617 38 4, 525 7, 931 79, 316 99, 854	abstract abstract abstract abstract abstract	map atlas transportation car vehicle S05+S06+S07+S08
\$08 \$09 \$10 \$11 \$12 \$13 \$14 \$15 \$16	38 4,525 7,931 79,316 99,854	abstract abstract abstract abstract	atlas transportation car vehicle S05+S06+S07+S08
\$10 \$11 \$12 \$13 \$14 \$15 \$16	4, 525 7, 931 79, 316 99, 854	abstract abstract abstract	transportation car vehicle S05+S06+S07+S08
\$10 \$11 \$12 \$13 \$14 \$15 \$16	7, 931 79, 316 99, 854	abstract abstract	car vehicle S05+S06+S07+S08
\$10 \$11 \$12 \$13 \$14 \$15 \$16	7, 931 79, 316 99, 854	abstract	vehicle S05+S06+S07+S08
S11 S12 S13 S14 S15 S16	79, 316 99, 854		S05+S06+S07+S08
\$12 \$13 \$14 \$15 \$16	99, 854	logical expression	
S14 S15 S16	4, 617		+S09+S10+S11
S15 S16		abstract	map
S16	38	abstract	atlas
	242, 671	abstract	position
\$17	47, 604	abstract	location
271	49, 609	abstract	reference
S18	3, 850	abstract	route
S19	5, 432	abstract	calculation
S20	80, 369	abstract	information
S21	395, 367	logical expression	\$13+\$14+\$15+\$16 +\$17+\$18+\$19+\$20
S22	9	logical expression	(S01+S02+S03) * ((S05+S18) * (S07+S08) * (S10+S11)) * S15 * S16
S23	21	logical expression	(S01+S02+S03) * ((S05+S18) * (S10+S11)) *S15 * S16
S24	32	logical expression	(S01+S02+S03) *
(List ①)			(S05+S18) *S15*S16
S25	7, 721	patentee	BOSCH
S26	58	logical expression	(S01+S02+S03) *S25
(List ②)			
S27 (List ③)	30	logical expression	(S01+S02+S03) *S06* S20*S16

# Search Report

Subject: Patent Search For Technologies of Navigation and Location Reference

#### [Subject]

Patent Search For Technologies of Navigation and Location Reference

#### [Term]

1993.01.01 ~ Derwent week 200242

#### [Data Base]

Dialog Derwent World Patents Index (DWPI)

#### [Field]

Whole recorded fields of the Database

#### [Contents]

We extract the whole technology regarding AGORA Project, especially, macro-matching or map (pattern) matching of map data, which are technologies for making a plurality of map data relate to and connect with each other. Elementally technologies are extracting similar figures, checking error matching, checking error positioning, map matching, or such.

- We searched within a field connected to "road", "traffic", and "map" included in the above mentioned technical field.
- Other keywords were applied to the search without limiting them to the above three keywords.

#### [Objective Manufactures for Search]

ERTICO, NavTech, TeleAtlas, move, BOSCH, Blaupunkt, Siemens VDO (DDG, Traffic master, Mannesmann)

- We started form "patent classification" so as to search widely regarding the important manufactures written in bold strokes.
- The manufactures mentioned in the parenthesis were also searched with the keywords carefully.
- Other manufactures were searched with the keywords.

#### [Ways for Search]

We searched the technical fields along with the following retrieval style, output patent numbers of the objective sets, and investigated each reference. We also extracted references disclosing similar or relative arts to the technologies and evaluate their relevance.

#### [Retrieval Style]

Set	Items	Description
S1	4940	IC=' G08G-001/0969'
S2	3586	IC=' G09B-029/00'
<b>S</b> 3	3804	IC=' G09B-029/10'
<b>S4</b>	8762	IC='G01C-021/00'
<b>S</b> 5	11133	\$1+\$2+\$3+\$4
<b>S6</b>	8679	S5*(ROAD OR TRAFFIC OR MAP OR ATLAS OR TRANSPORTATION OR CAR OR VEHICLE)
S7	507	(MAP OR ATLAS OR POSITION OR LOCATION) (W) MATCH?
S8	5097	(MAP OR ATLAS OR POSITION OR LOCATION) (W) ADJUST?
S9	2960	(MAP OR ATLAS OR POSITION OR LOCATION) (W) CORRECT?
S10	164 ·	ROUTE (W) CALCULATION OR ROUTING (W) CALUCURATION OR PATH (W) CALCULATION
S11	260	S6* (S7+S8+S9+S10)
S12	3	FAULT (W) MATCH? OR FAULT (W) ADJUST?
S13	129	ERROR (W) MATCH? OR ERROR (W) ADJUST?
S14	10597	ERROR (W) CORRECT?
S15	17	S6* (S12+S13+S14)

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17328
                RELATIVE (W) POSITION?
S16
                 (SIMILAR+ANALOGOUS+ANALOGICUS+HOMOTHETIC) (W) FIGURE
           39
S17
                S6*(S16+S17)
S18
           81
           37
                LOCATION (W) REFERENC?
S19
                S6*(POINT+LINE?+ROAD?)*(CHARACTER?+SHAPE?+GEOMETRY+TOPOLOGY
S20
         1119
                 +TYPE+FEATURE+DIRECTION)
S21
            0
                 S6*(ILOC OR GOODLANE OR PIVOT (W) POINT)
S22
          754
                 (POSITION? OR LOCATION?) *S20
         1074
                $11+$15+$18+$19+$22
S23
                 PC=JP*NC=001
S24
      4104686
                 S23 NOT S24
S25
          392
                 PC=(EP+W0) *S25
S26
          218
S27
                 PA=ERTICO
            0
                 PA=' NAVTEC' +PA=' NAVTEC INC' +PA=' NAVTEC INC (NAVT-N)' +PA=' NAVTECH'
S28
            4
                 +PA=' NAVTECH CO LTD' +PA=' NAVTECH CO LTD (NAVT-N)'
                 PA=' TELEATLAS' +PA=' TELEATLAS INT BV' +PA=' TELEATLAS INT BV (TELE-N)'
S29
S30
           70
                 PA=MOVE
        32265
S31
                PA=BOSCH
S32
          875
                PA=BLAUPUNKT
                PA=SIEMENS
S33
        72701
                 $27+$28+$29+$30+$31+$32+$33
S34
       102433
S35
           14
                 PA=DDG
S36
                PA=TRAFFIC MASTER
            0
                 PA=MANNESMANN
S37
         9151
S38
         9164
                 $35+$36+$37
S39
           144
                 S6*S34
S40
            7
                 $6*$38* ($7+$8+$9+$10+$12+$13+$14+$16+$17+$22)
                 S39 NOT S24
S41
           144
                 S40 NOT S24
S42
            7
S43
           500
                 S25+S41+S42
                 PC=(EP+W0) *S43
S44
           299
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\* We output and investigated the references in the underlined set.

#### [Result of Search]

à.

As a result of the search, we extracted 134 patent families in total. If a patent publication is written in German or French, we referred to a corresponding publication written in Japanese or English, which is belonging to the family member of the parent publication in order to investigate its details.

In attached FD, expressed as above.

ce Annicat No Kind	WO 20010E201	3;2	WO 2001DE2713 A	DE 1039235 A		WO 2000FK3/40	FK 20002259	FR 9916744 A	DE 1033193 A	,,		WO 2001DE2570 A	EP 2001112685 A	DE 1030896 A	NE 1020108 A	WO 2001DE2204 A	DE 1021373 A		EP 2001303851 A	US 2001842012 ID 2000121640	FP 2000131640 A	JP 99328430 A	US 2000592326 A	WU 20010518775 A	EP 2001100872 A	JP 200123960 A	WO 2001DE1247 A	FP 2001102855 A	US 2001781152 A	JP 200132153 A	EP 2001102141 A	US 2001774561 A	•	WO 2000DE3878 A	: ထ : ၊	WO 2000DE38/8 A	WO 2000DE3877 A	DE 1009149 A	WO 2000DE2701 A
- Nate Relevance	V 8660	20020321	20020221 O	20020228	<b>∞</b>	20010712  Δ-	2001120/	20010710	20020117	20020117]O	20020121	20020124 20020124 \ \triangle -	20020102	20020103	20020322 0	20011227	8	20011108	20011031	20011101	2001110910	2001052510	20011023	20011220 \	20010808	20010914	20011011	200110101	20010823	20011102	20010808	20010809	20010210	20010712	20011205	100000	20010712	20010308	20010315 O
Navigation and Location Reference	MIC SOCIATIONS	Description   Description	88	DE 10039235 A1		<u>≥</u>	FR 2809837	AU 200130310 A	HAHLWEG C&HDE 10033193 A1	8	AU 200176311	HOLZE H&IBADE 10034499 A1	HAHLWEG C& EP 1167923 A2		2	MO 200198734 A1	MOSIS T& DE 10021373 A1			US 2001003/1// [A1	CHICLMOTO HE	JP 2001141492	SNYDER M&W US 6308132 B1	WO 200196812	PENALGER SENDE 10004103	JP.	I ROBERT (FWO 200175838   A1	<b>1</b>	US 20010016796   A1	9	1122626	US 20010012981 A1	DIMBICIBLES AND	DINNEMIES   UNE 19903/00   A1   A1   A1   A1   A1   A1   A1		10000	BINNEWLES (UDE 19963/65) A1		; ;
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. (*!)	9:31:1	Method and structure for operating a navigmu 2002/7200 Al	Displaying route, especially for vehicle rWO 200214788 Al		Retrieval method for digital map section 4WO 200216874 Al	sion programme broadcast system inc			Coding decoding and/or transmission of 1dDF 10033193 A1 N			Information and control system for vehicldDE 10034499 A1 N	Digital road map for automobile navigationEP 1167923 A2 NO		3	Selecting map injormation for nav gation upt toucklise Alin	Method and navigational instrument for detDE 10021373 A1 N		Navigation system for motor vehicles, set4EP 1150101 A1 NO		+ i on double for not 1   1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	Navikation uevice tol satellice pased verific 1102000 At the	Navigational information display method fdUS 6308132 B1 NO		Navigation system for vehicles, has heuraluz ludu4163 Alin		Data output method for automobile driver informa WO 200175838 A1	Formation obone ine don't on for motor			Intersection display method for map displaEP 1122626 A1 NO		4	Uperating navigation system, involves trafut 19953/05 Al N			Operating navigation system, involves trandE 19963/65 Al N	Encoding and decoding objects in road netwDE 10009149 A1 N	
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20	Computer -assisted processing of structure NO 200132 A	ZUUIDO/DZ A INIDIEMIEND AU		M&KEWO 200156/52 DF 10004409	A1-	20010809	◁	MO 2001DE412 DF 1004409	∢ ∢
	Road network related data providing methodEP 1111336 A1 NO	1111336 A1 NOV NAVIGATION	ON TBECHTOLSHE	EP 1111336	A1	20010627		EP 2000310804	<b>A</b>
				JP 2001227978	A	20010824	◁		V
- 66	Data storing method in geographic databas4EP 1098168 A2 NO	1098168 AZ NOVÍNAVIGATION	ON TBOYLAN A ME	잂	A2	20010509		EP 2000302881	٧
				JP 2001201358	A	20010727	0	JP 2000326025	A
	Encoding and decoding road network objects, invoDE 19942522 A1 N	Ö	BOSCH GMBH ROBERT (B	DE 19942522	A1	20010308		DE 1042522	4
,,		_		WO 200118768	Α1	20010315	0	WO 2000DE3056	∢
3				EP 1214697	¥	20020619	<u> </u>	EP 2000963961	<
		_						WO 2000DE3056	4
24	Image processing apparatus for navigating EP 1074960 A1 NO	$\overline{}$	PIONEER CORPKASHIWAZAK	EP 1074960	¥ <	20010207		EP 2000115939	∀ -
	Navigational information transmission prodDE 19930796 41 N	19930796 AT NO ROSCH GMBH	SH FIDEAFGER GRA	닑늗	\ -	20010203		1030706	<
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25				WO 200102806	H A1	20010111	<b>+</b> \(	WO 2000DE2140	V
•				EP 1198696	A1	20020424		EP 2000954304	4
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	Adapter card for navigation device has infDE 19934837 Al N	19934837 A1 NO BOSCH GMBH	3H FRYCHLAK S&	DE 19934837	A1	20010125		DE 1034837	¥
ķ			1	WO 200108086	A1	20010201		WO 2000DE2416	4
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	Vehicle navigation system in which the scaDE 19926367 A1 N	19926367 A1 NO BOSCH GMBH	SH FDUCKECK R&		Al	20001214		DE 1026367	∢
7.6			1	WO 200077474	A1	20001221		WO 2000DE1814	< <
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	Route guidance device for motor vehicle WO	WO 200050845 A1 N XANAVI IN	INFORSATO H&	WO 200050845	A1	20000831		WO 2000JP1111	<b>4</b>
g				JP 2000241182	٧	20000908	0	JP 9947945	4
3				EP 1162432	A1	20011212		EP 2000905356	⋖
								WO 2000JP1111	4
	User adapted position dependent informatidWO 200049530 A1	200049530 A1 NITELIA AB	(TECHRISTIANS)	WO 200049530	A1	20000824	0	WO 2000SE306	V
				SE 9902487	<u> </u>	20000818		SE 992487	V
				SE 514052	[62	20001218		SE 992418	<b>~</b>
73				SE 9902417	<b>∀</b>	20000818		SE 992417	V
				SE 9902110	¥	20000818		SE 992110	V
				EP 1196865	A1	20020417		EP 2000908202	٧
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